Each

Friday, 11/04/2008 9:01:57 AM User: Julie Lecocq **Process Sheet** Customer : CU-DAR001 Dart Helicopters Services **Drawing Name** : TUBE ASSEMBLY Job Number : 38552 **Estimate Number** : 11920 : D2003039 P.O. Number **Part Number** : UNDER REVIEW : 11/04/2008 S.O. No. : This Issue **Drawing Number** : NC Prsht Rev. : N/A Project Number : // : SMALL /MED FAB : B First Issue Type **Drawing Revision** : 29932 **Previous Run** Material : 21/04/2008 Qty: **Due Date** 6 Um: Written By Checked & Approved By Comment : Est В 00.01.12 Re-format EC **Additional Product** Job Number: Seq. #: **Machine Or Operation:** Description: 1.0 M304TR0500W035 304 RD Tube .500 x .035W Comment: Qty.: Total: 17.8498 f(s) 2.9750 f(s)/Unit 304 RD Tube .500 x .035W Cut as per template D2003-039 (34.00" long) Batch: M107166 Material:1/2"Æ x 0.035" wall AISI 304 SS tubing Cut: 34.0" long as per Dwg D2003 -MOB. 04.14 Material: M2650-6 Heat sleeve i/Batch: 2.0 M26506 Firesleeve-crkl .375IDia Comment: Qty.: 2.8300 f(s)/Unit Total: 16.9800 f(s) Firesleeve-crkl .375lDia M 1067-8 MS208198J 3.0 Comment: Qty.: 2.0000 Each(s)/Unit Total: 12.0000 Each(s) Pick

Qty Part Number Desc Batch: MS20819-8J Sleeve

M107650

XIZ

AN8188J



Comment: Qty.: 2.0000 Each(s)/Unit Total: 12.0000 Each(s)

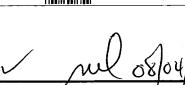
Pick

Qty Part Number Desc Batch: Nut

2 AN818-8J

M106074

X12



4.0

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES												
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
							-							
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Part No:	PAR #:	Fault Category:	NCI	R: Yes No	DQA:	Date:	
			· · · · · · · · · · · · · · · · · · ·	QA: N/C C	Closed:	Date:	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section	В	Verification	Annroyal	Annroyal				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector				
		*										
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		4										
	1											
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NOTE: Date & initial all entries

Date:	Frida	y, 11/04/2008 9:01:57 AM	-
User:	Julie	Lecocq Proce	ess Sheet
Cus	stomer:	CU-DAR001 Dart Helicopters Services	Drawing Name: TUBE ASSEMBLY
f_{i}^{j} .		20552	
Job N Job Numb	lumber:	38552	Part Number: D2003039
)	JGI,		
/ Seq. #:		Machine Or Operation:	Description :
5.	.0	D2182045 Heat Shri	nk 4.5" Long
Í	Comme	, ,	ch(s)
K	1_	Heat Shrink 1" x 4.5" Pick:	
2	5	Qty Part Number Description Batch	101
		1 D2182-045 Heat shrink <u>B2186</u>	
6.	.U	SMALL FAB 1 SMALL &	MEDIUM FAB RESOURCE 1
	Comme	nt: SMALL & MEDIUM FAB RESOURCE 1	CONTION CONTRACTOR TANK
		Form tube as per template D2003-039 Assemble as per Dwg D2003	ENG. IS OB. 04.11 CONDERNED TO THE WAY XB
		7.000mble de per 2 mg B2000	Erbs. 12 08:04.11 ml08/04/15
7.0	0	QC5 INSPECT	WORK TO CURRENT STEP
	Comme	nt: INSPECT WORK TO CURRENT STEP	5 5864(5 (K B)
8.			NG RESOURCE #1
	Comme	it: PACKAGING RESOURCE #1	
		Identify and Stock	
		Location: 44/	6 (6) SPECTIONW/O RELEASE
9.0	.0	QC21 FINAL INS	SPECTION/W/O RELEASE
			11 08/04/17 A
4-1-	Comme	nt: FINAL INSPECTION/W/O RELEASE	
Job Complet	tion	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	146
			MF 08-04-16
		(9)	

Dart Aerospace	Ltd
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Dart Ae	rospace L	td								
W/O:			WO	RK ORDER CHA	NGES					
DATE	STEP	PR	OCEDURE CHAI	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
			*							
			•							
Part No		PAR #:	Fault Categ	jory:	NCF	: Yes N	lo DQ	A :	_ Date:	
						QA: N/	C Close	d:	_ Date: _	
NCR:			WORK ORDE	R NON-CONFOR	RMANCE	(NCR)				
		Description of NC		Corrective Action	Section B		Verification		A	A
DATE	STEP	Section A	Initial Chief Eng	Action Descripti Chief Eng	on	Sign & Date	Section		Approval Chief Eng	Approval QC Inspector
								į		
		,								

NOTE: Date & initial all entries





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	DESIGN DRAWN BY			DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA						
	CHEC	KEP .	APPROVED	DRAWING NO. REV. B						
	4	15		D2003 SHEET 1 OF 2						
į	DATE			TITLE SCALE						
	99.0	06.08		206 CABIN HEATER TUBE ASSEMBLIES NTS						
	Α		90.04.09	NEW ISSUE						
	В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)						

RELEASED 44.06.03 KE

CC.08.21 CB 1 cmths wrong

\$ 68.04.4

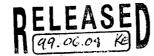
P/N	TEMPLATE	HEATSLEEVE LENGTH ¹	CUT LENGTH OF TUBE ²	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	DESC.	MATERIAL ⁴⁶⁷⁷	VENDOR OR SPEC
D2003-001	T2003-001	5.2	6.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12					2	2	. TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62					2	2	· TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/
D2003-007	T2003-007	20.0	19,63					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/
D2003-009	T2003-009	12.38	12.44					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/
D2003-011	T2003-011	33.31	32.38					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13.54					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/
D2003-017	T2003-017	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/
D2003-019	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/
D2003-021	T2003-021	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/
D2003-023	T2003-023	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/
D2003-025	T2003-025	9.8	10.60			2	2			TUBE ASS'Y	6061-T6 0,500 OD x 0,035 W	WW-T-700/
D2003-027	T2003-027	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/
D2003-029	T2003-029	17.2	18.00			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/
D2003-031	T2003-031	14.6	15.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 30
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 30
D2003-035	T2003-035	24.7	27.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 30
D2003-037-	-T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 30
D2003-039	T2003-039)	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 30
D2003-041	T2003=041	6.0	5.88	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 30
D2003-043	T2003-043	11.7	10.75	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 30
D2003-045	T2003-045	3.50	2.44	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 30
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 30
D2003-049	T2003-049	33.2	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 30
D2003-077	T2003-077	N/A	6.25					1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/
D2003-101	T2003-101	13.25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/
D2003-103	T2003-103	12.38	12.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/
D2003-105	T2003-105	10.75	10.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/
D2003-107	T2003-107	12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/
D2003-109	T2003-109	8.25	8.125			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/
D2003-111	T2003-111	4.75	4.625			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/
D2003-116	T2003-116	4.0								HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLE
D2003-120	T2003-120	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLE
D2003-14	T2003-14	4.0								HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLE
D2003-16	T2003-16	4.0]					HEATSLEEVE	M2650-16 CRINKLE-SQFT)P	
D2003-205	T2003-205	9.75	9.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W _{cs}	IRNWW-T-700/
D2003-207	T2003-207	3.75	3.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WWST-700/
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SUBJECT TO AMERICAN WITHOUT NOTICE WORK ORDER





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DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA								
CHECKED	APPROVED	DRAWING NO.	REV. B							
46	14	D2003	SHEET 2 OF 2							
DATE		TITLE	SCALE							
99.06.08		206 CABIN HEATER TU	BE ASSEMBLIES NTS							





Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

